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Ġ[APPLICATION NUMBER	· FILING DATE	FIRST NAMED APPLICANT		ATTY DOCKET NO.	
	08/453.3	50 05/30/	95 HELDIN	1	000% 000	
				EXAMINER		
	HM21/0518 CHIRON CORPORATION			SACUE	SAOUD,C	
	CHIRUN C	ORPORATION TUAL PROPE	RTY R440	ART UNIT	PAPER NUMBER	
•	F 0 BOX			1646	36	
				DATE MAILED:	05/18/98	
Ţ	This is a communication COMMISSIONER OF PA	from the examiner in o	charge of your application. MARKS	•		
			OFFICE ACTION SUMMARY		•	
rch _			5 March 1998			
	Responsive to commu	nication(s) filed on	J March 1998			
∑ ∕ ₹	This action is FINAL.		•			
			lowance except for formal matters, prosecurite Quayle, 1935 D.C. 11; 453 O.G. 213.	tion as to the merits is	s closed in	
A sho	ortened statutory neri	od for response to t	his action is set to expire	: month(s), or t	arch utair	
which	never is longer, from ti	ne mailing date of th	nis communication. Failure to respond within	the period for respons	e will cause	
the ap 1.136		abandoned. (35 U.S	S.C. § 133). Extensions of time may be obta	ained under the provision	ons of 37 CFR	
	osition of Claims			·		
l≯ c	Daim(s)25	27, 43 - 5		is/are pendi	ng in the application.	
c	of the above, claim(s)	46-	54		from consideration.	
	Xaim(s)				_is/are allowed.	
	Naim(s)25			•-	_is/are rejected.	
	Xaim(s) Claim(s)		•	subject to restriction or	/are objected to. election requirement.	
— Appli	cation Papers			• · ·	. •	
П «	See the attached Notic	o of Droftsnorson's	Patent Drawing Review, PTO-948.			
_	he drawing(s) filed or	*		ed to by the Examiner.		
==	he proposed drawing			is	disapproved.	
=	he specification is obj	•				
יי נו	he oath or declaration	is objected to by t	he Examiner.		•	
Priori	ity under 35 U.S.C. §	119	•			
□ A	cknowledgment is ma	ade of a claim for fo	reign priority under 35 U.S.C. § 119(a)-(d).		· :	
	All Some*	None - of the CE	ERTIFIED copies of the priority documents h	ave been		
	_		e. are proonly weenfulled it			
L	☐ received.	tion No. (Sories Or	oda/Sarial Number			
	_	-	ode/Serial Number) tion from the International Bureau (PCT Rule			
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⊡ A	cknowledgment is ma	ide of a claim for do	omestic priority under 35 U.S.C. § 119(e).			
				•	•	
AT(BCI	hment(s)					
П м	lotice of Reference Ci	ted, PTO-892				
☐ In	nformation Disclosure	Statement(s), PTO	-1449, Paper No(s)			
☐ In	nterview Summary, PT	O-413				
□ N	otice of Draftperson's	Patent Drawing Re	eview, PTO-948	•		
<u></u> м	lotice of Informal Pate	nt Application, PTO	-152			
		_SFF	OFFICE ACTION ON THE FOLLOWING PA	AGES		

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DETAILED ACTION

The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1646.

Transitional After Final Practice

1. Since this application is eligible for the transitional procedure of 37 CFR 1.129(a), and the fee set forth in 37 CFR 1.17(r) has been timely paid, the finality of the previous Office action is hereby withdrawn pursuant to 37 CFR 1.129(a). Applicant's first submission after final filed on 05 March 1998 has been entered.

Response to Amendment

- 2. Claims 55-57 have been added as requested in the amendment of paper #34, filed 05 March 1998. Claims 25-27, 57 are pending in the instant application. Claims 46-54 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b) as being drawn to a non-elected invention (see paper #31, paragraph #3).
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Any objection or rejection of record which is not expressly repeated in this action has been overcome by Applicant's response and withdrawn.

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5. Applicant's arguments filed 05 March 1998 have been fully considered but they are not deemed to be persuasive.

Claim Rejections - 35 USC § 102

6. Claims 25-27 and 43-45 remain rejected and newly submitted claims 55-57 are rejected under 35 U.S.C. 102(b) as being anticipated by Heldin et al. (Nature 319: 511-514, 1986) for the reasons of record in paper #31 as applied to claims 25-27 and 43-45.

Newly submitted claims 55-57 recite the limitation that the excipient be "suitable for topical administration". However, the pharmaceutically acceptable excipient of Heldin et al. (phosphate buffer at a pH of 7.4; see Figure 1 legend) would be considered to be suitable for topical administration, and therefore, meets the limitations of the claims.

7. The Declaration under 37 CFR 1.132 filed 05 March 1998 is insufficient to overcome the rejection of claims 25-27 and 43-45 based upon Heldin et al. as set forth in the last Office action because: the Declaration asserts that the ODGF of Heldin et al. would not be free of human viruses or other proteins of human origin. This statement is not supported with any evidence of record. The Declaration also states that the "methods of purifying proteins from human sources ... cannot result in a protein product free of contaminating human proteins" (see page 3, paragraph 5 of Declaration). This statement is again not supported with any evidence. The prior

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art of Heldin et al. demonstrate a single band on a silver-stained gel, which is indicative in the art of a homogenous preparation of protein (Figure 1, page 512). Furthermore, Heldin et al. specifically state that "one homogeneous component of M, 31,000 was obtained in non-reducing conditions" (page 511, column 2, lines 3-5). The Declaration has identified no human virus which would copurify with a molecular weight of 31,000. In addition, Heldin et al. state that no other amino acid sequence was obtained from the purified PDGF AA preparation (see page 512). Therefore, the evidence of record clearly supports the conclusion that the protein preparations and compositions were free of other human proteins and free of any viruses because Heldin et al. teach a purification to homogeneity, absent evidence to the contrary.

Applicant argues that "conventional protein purification methods used to isolate PDGF from human cells would not result in a completely pure product" (see arguments at page 4). However, no evidence has been provided to support this conclusion. Heldin et al. teach a homogeneous composition and Applicant has provided no evidence to doubt this teaching. Applicant argues that the Declaration provides evidence to the contrary, however, the Declaration merely alleges that the composition of Heldin et al. would contain contaminating protein. There is no evidence of record to support this conclusion. Applicant argues (spanning pages 4 and 5) that the Declaration states "it is a virtual certainty that trace amounts of human proteins were present in the ODGF preparations that were not detected". This conclusion has been made without any evidence to support it. The prior art teaching of Heldin et al. clearly demonstrates a single band on a silver-stained gel which is recognized in the prior art as being indicative of a homogenous

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preparation as is the amino acid sequencing which did not detect any other proteins present. The Declaration alleges that "the cell line may well have contained pathogenic viruses form the patient" and that there would be no guarantee of the elimination of human viruses (see page 5 of response). As stated above, Applicant has provided no evidence of any virus which would be expected to copurify at M_r 31,000, and no evidence has been provided to contradict Heldin et al.'s teaching of homogeneity. Therefore, the evidence of record clearly supports the rejection which is maintained above.

Conclusion

- 8. No claim is allowed.
- All claims are drawn to the same invention claimed in the application prior to the entry of 9. the submission under 37 CFR 1.129(a) and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.129(a). Accordingly, THIS ACTION IS MADE FINAL even though it is a first action after the submission under 37 CFR 1.129(a). See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after Serial Number: 08/453,350

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Saoud, Ph.D., whose telephone number is (703) 305-7519. The examiner can normally be reached on Monday to Friday from 8AM to 3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Walsh, can be reached on (703) 308-2957. The fax phone number for this Group is (703) 308-0294.

Official papers filed by fax should be directed to (703) 308-4227. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Christine Saoud, Ph.D.

May 13, 1998

CA

JOHN ULM PRIMARY EXAMINER GROUP 1800